FIG. 1

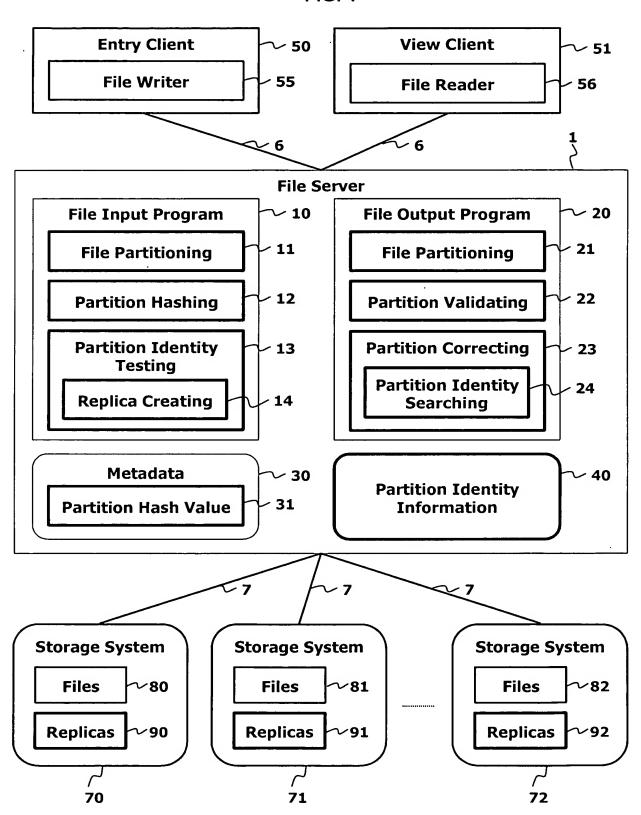
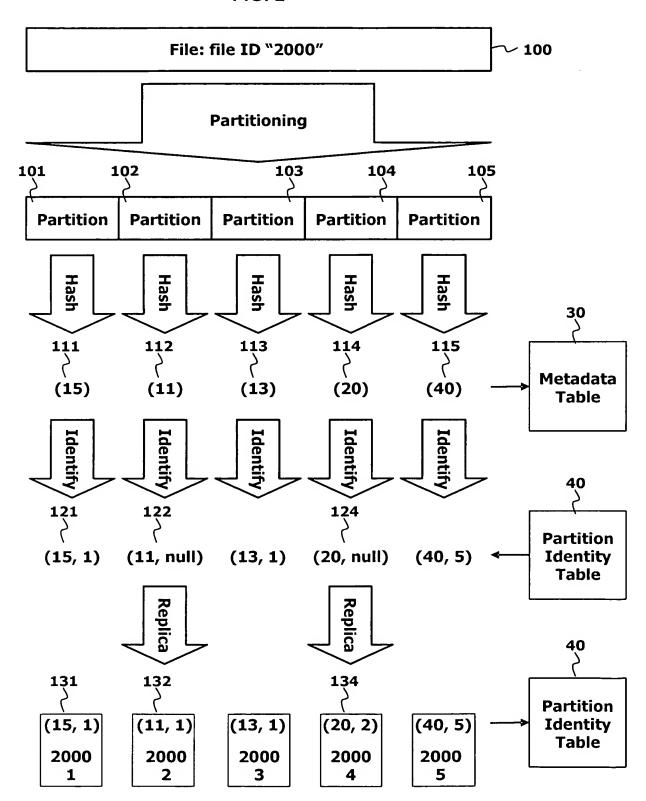
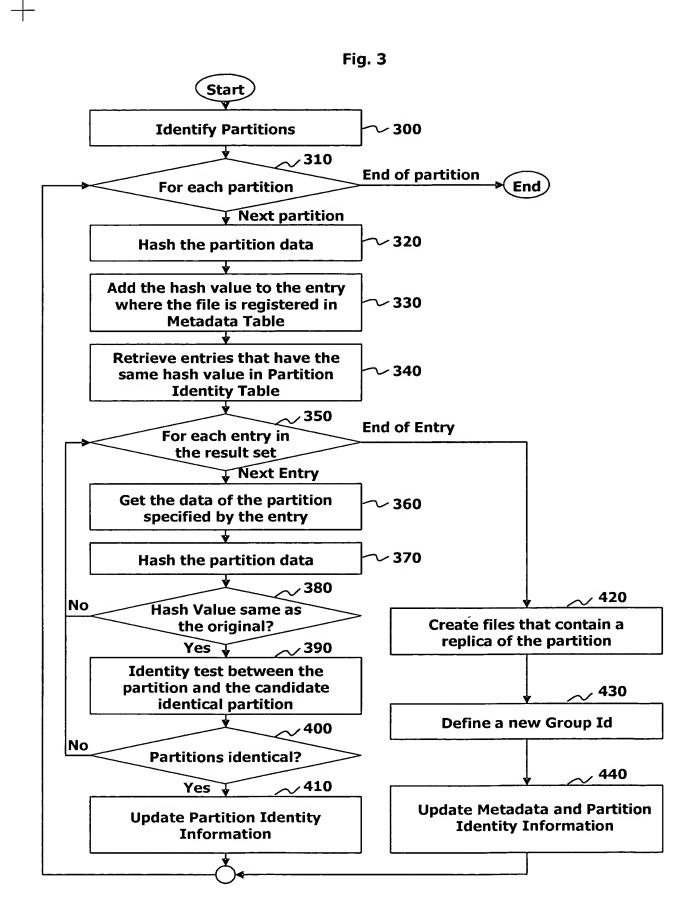


FIG. 2



16869B-098200US George B. F. Yee, Reg. No. 37,478 Telephone: 650-326-2400 Înventor: Yuichi Yagawa Tüte: Long Term Data Protection System and Method Sheets of drawings 3 of 9



16869B-098200US
George B. F. Yee, Reg. No. 37,478
Telephone: 650-326-2400
Inventor: Yuichi Yagawa
Title: Long Term Data Protection System and Method
Sheets of drawings 4 of 9

700	710	720	730	740 ل	30
File Id	Location		Hash Values	Size	
1000	1.10		10, 13, 20, 30	512	~751
2000	2.15		15, 11, 13, 20, 40	512	~ 752
3000	3.5		10, 18, 13, 40	1024	~ 753

FIG. 4

800	810 لم	820	830	40
Hash Value	Group Id	File Id	Partition Number	
				į
10	3	5600	9	1
12	4	900	7	1
13	1	1000	2	~ 851
13	1	1500	3	~ 852
13	1	2000	3	~ 854
13	2	3000	3	√ 853
14	7	800	21	1
14	9	2300	3]
15	1	1600	2	
15	1	2000	1	

FIG. 5

16869B-098200US George B. F. Yee, Reg. No. 37,478 Telephone: 650-326-2400 Inventor: Yuichi Yagawa Title: Long Term Data Protection System and Method Sheets of drawings 5 of 9

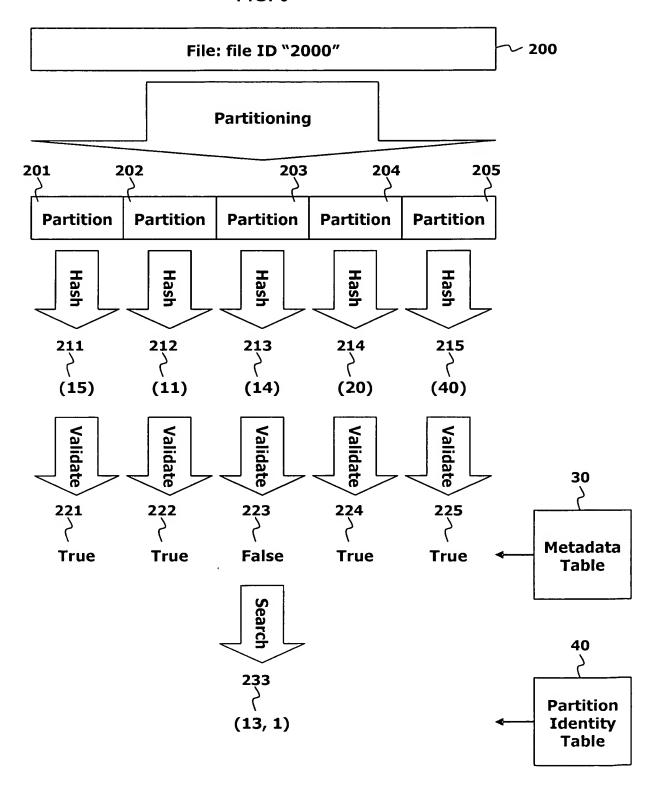
-	700	710	720	730	740 لم	30
	File Id	Location		Hash Values	Size	
	1000	1.10		10, 13, 20, 30	512	~ 751
	2000	2.15		15, 11, 13, 20, 40	512	~752
	3000	3.5		10, 18, 13, 40	1024	~ 753
	R300	1.5		11	512	~ 754

FIG. 4A

800	810	820	830	40
Hash Value	Group Id	File Id	Partition Number	
11	1	R300	1	1
11	1	2000	2	
12	4	900	7]
13	1	1000	2	~ 851
13	1	1500	3	~ 852
13	1	2000	3	~ 854
13	2	3000	3	853
14	7	800	21	
14	9	2300	3	
15	1	1600	2	
15	1	2000	1]
]

FIG. 5A

FIG. 6



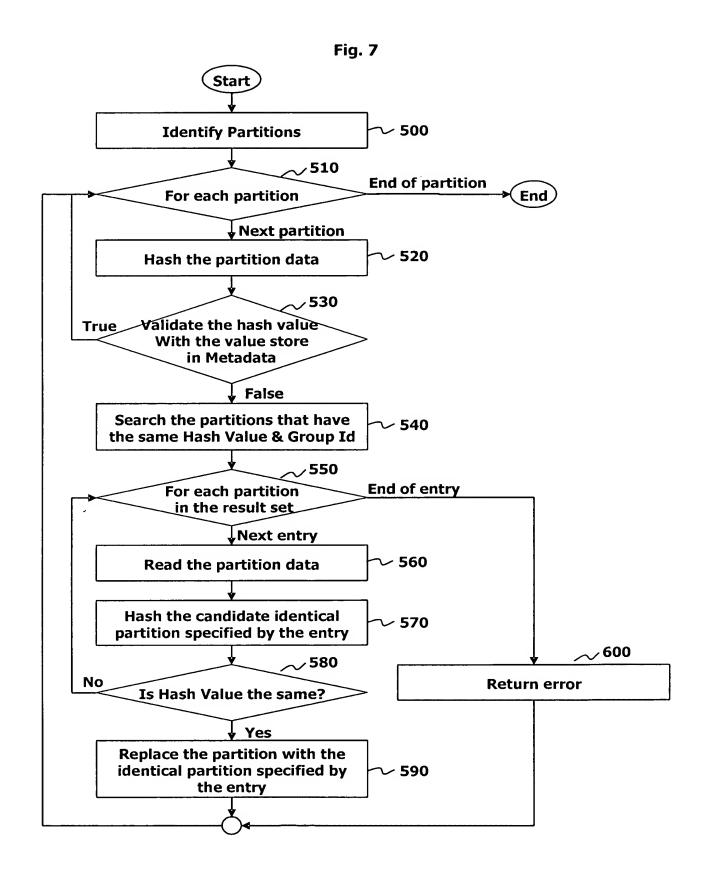


FIG. 8

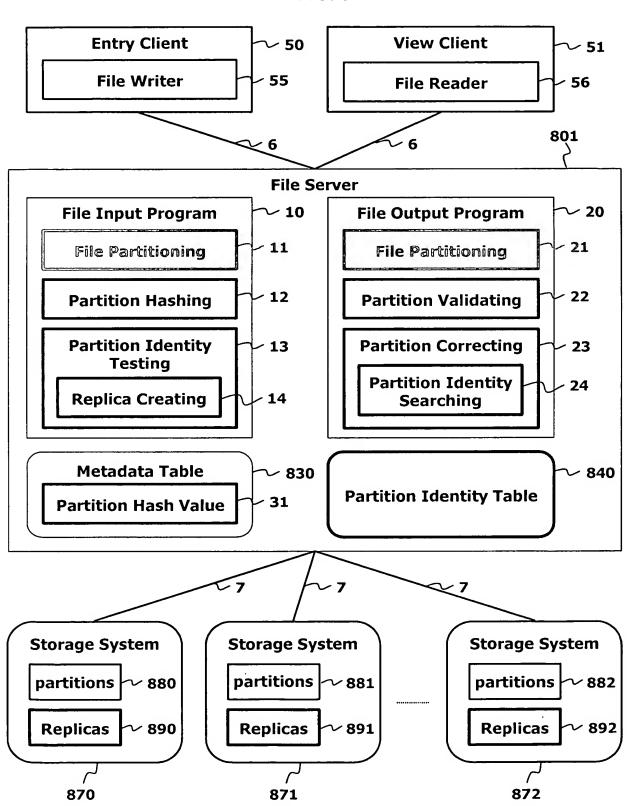


Fig. 9 View Client **Entry Client √** 50 **~51 File Writer - 55** File Reader **- 56 1a ~**6 \approx 6 **File Server √** 10a ~ 20a File Output Program **File Input Program** 22a 12a File Validating File Hashing **File Identity Testing File Correcting** - 13a 23a File Identity 24a **Replica Creating** Searching 14a Metadata 40a 30a **File Identity** 31a **Information** File Hash Value **Storage System Storage System Storage System Files** ~81 **Files ~82 Files** ~80 Replicas **~91a** Replicas Replicas ~92a ∕90a 72a 70a 71a